BRUHAT BANGA

Name of Work: -Improvements to Roads and RCC Drains at Brundava

	Name of Contractor:-	M/s Sathya Constructions (prop)R Satheesh No:600,Down bazaar Road, Yelahan
	Approved amount:-	39553218 (Excluding GST)
	Tender premium:-	+4.95% (Above)

SL NO	Description of work	Unit	Qty as per Quoted Rate			Total Executed Quantity	Qty
			Qty	Rate	Amount		Qty
1	2	3	4	5	6	7	8
1	Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar. complete as per specifications and directions of the Engineer in charge.	Cum	52.87	463.73	24518.33	0.00	0.00
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. (5km lead = 57+2*1.28X5)complete as per specifications and directions of the Engineer in charge.	Cum	4.02	692.90	2787.33	0.00	0.00
3	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications 5km lead= 57+2.0x1.28x5 =69.80 complete as per specifications and directions of the Engineer in charge.	Cum	4527.41	217.88	986432.31	2790.98	2790.98
4	Removing and refixing stone slabs of drains and pointing in CM (1:3)complete as per specifications and directions of the Engineer in charge.	Sqm	1479.34	116.81	172802.11	0.00	0.00
5	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete as per specifications and directions of the Engineer in charge.	Sqm	547.91	778.73	426670.06	0.00	0.00
6	Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications and directions of the Engineer in charge.	Cum	475.22	5690.28	2704132.02	468.79	468.79

ORE MAHANAGARA PALIKE

ıa collage Road, Vinayakanagara, Shivapura and Surrounding area in Ward No.05

WORK SLIP

ta, Bangalore-64.

Qty as per Execution					Total Amount	Excess amount	Savings amount	Remarks
s per Anticipated upto 125%		Qty as per Anticipated Above 125%						
Rate	Amount	Qty	Rate	Amount				
9	10	11	12	13	14	15	16	17
463.73	0.00	0.00	0.00	0.00	0.00	0.00	24518.33	
692.90	0.00	0.00	0.00	0.00	0.00	0.00	2787.33	
217.88	608098.61	0.00	0.00	0.00	608098.61	0.00	378333.70	
116.81	0.00	0.00	0.00	0.00	0.00	0.00	172802.11	
778.73	0.00	0.00	0.00	0.00	0.00	0.00	426670.06	
5690.28	2667566.28	0.00	0.00	0.00	2667566.28	0.00	36565.74	

SL NO	Description of work	Unit	Qty as per Quoted Rate			Total Executed Quantity	Qty
			Qty	Rate	Amount		Qty
1	2	3	4	5	6	7	8
7	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15 ,Cmcomplete as per specifications and directions of the Engineer in charge.	Cum	957.95	7420.17	7108159.27	927.64	927.64
8	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification ,complete as per specifications and directions of the Engineer in charge.	tonne	67.96	75907.17	5158563.98	65.34	65.34
9	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)complete as per specifications and directions of the Engineer in charge.	Sqm	2509.02	2452.68	6153823.17	2536.74	2536.74
10	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc complete as per specifications and directions of the Engineer in charge.	Sqm	121.89	5686.19	693089.70	26.58	26.58
11	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 & Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)complete as per specifications and directions of the Engineer in charge.	Cum	3.27	1073.37	3509.92	0.00	0.00
12	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead, complete as per specifications and directions of the Engineer in charge.	Cum	797.70	59.04	47096.36	1260.92	997.13

Qty as per Execution					Total Amount	Excess amount	Savings amount	Remarks
per Anticipated upto 125%		Qty as per Anticipated Above 125%						
Rate	Amount	Qty	Rate	Amount				
9	10	11	12	13	14	15	16	17
7420.17	6883226.09	0.00	0.00	0.00	6883226.09	0.00	224933.18	
75907.17	4959396.43	0.00	0.00	0.00	4959396.43	0.00	199167.55	
2452.68	6221811.46	0.00	0.00	0.00	6221811.46	67988.29	0.00	
5686.19	151138.93	0.00	0.00	0.00	151138.93	0.00	541950.77	
1073.37	0.00	0.00	0.00	0.00	0.00	0.00	3509.92	
59.04	58870.45	263.79	59.04	15575.54	74445.99	27349.63	0.00	

SL NO	Description of work	Unit	Qty as per Quoted Rate			Total Executed Quantity	
			Qty	Rate	Amount		Qt
1	2	3	4	5	6	7	8
13	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications and directions of the Engineer in charge.	Sqm	2148.00	43.39	93201.72	6260.09	2685
14	Scarifying by mechanical means stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges complete as per specifications and directions of Engineer in charge	Sqm	515.00	43.39	22345.85	0.00	0.0
15	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOMcomplete as per specifications and directions of the Engineer in charge.	Sqm	2663.00	6.67	17762.21	6260.09	3328
16	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision complete as per specifications and directions of the Engineer in charge.	Cum	399.45	2093.67	836316.48	939.01	499.
17	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired densitycomplete as per specifications and directions of the Engineer in charge.	Cum	1410.19	2100.34	2961883.84	2700.74	1762.
18	Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineriescomplete as per specifications and directions of the Engineer in charge.	Sqm	6131.27	23.36	143226.51	11742.35	7664.
19	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications and directions of the Engineer in charge.	Sqm	9262.30	30.04	278239.34	12851.05	11577

Qty as per Execution					Total Amount	Excess amount	Savings amount	Remarks
per Anticipated upto 125%		Qty as per Anticipated Above 125%						
Rate	Amount	Qty	Rate	Amount				
9	10	11	12	13	14	15	16	17
43.39	116502.15	3575.09	43.39	155110.03	271612.18	178410.46	0.00	
43.39	0.00	0.00	0.00	0.00	0.00	0.00	22345.85	
6.67	22202.76	2931.34	6.67	19552.04	41754.80	23992.59	0.00	
2093.67	1045395.60	439.70	2093.67	920588.79	1965984.39	1129667.91	0.00	
2100.34	3702354.80	938.00	2100.34	1970118.50	5672473.30	2710589.46	0.00	
23.36	179033.14	4078.26	23.36	95268.15	274301.30	131074.78	0.00	
30.04	347799.18	1273.18	31.15	39658.53	387457.70	109218.36	0.00	

SL NO	Description of work	Unit	Qty as per Quoted Rate			Total Executed Quantity	Qty
			Qty	Rate	Amount		Qty
1	2	3	4	5	6	7	8
20	. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen ,complete as per specifications and directions of the Engineer in charge.	Cum	463.11	6924.01	3206611.16	642.55	578.89
21	Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineriescomplete as per specifications and directions of the Engineer in charge.	Sqm	23536.49	5.56	130862.87	13654.87	13654.87
22	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOMcomplete as per specifications and directions of the Engineer in charge.	Sqm	23536.49	13.35	314212.10	13654.87	13654.87
23	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive).complete as per specifications and directions of the Engineer in charge.	Cum	941.46	8137.72	7661333.53	546.19	546.19

Qty as per Execution					Total Amount	Excess amount	Savings amount	Remarks
s per Anticipated upto 125%		Qty as per Anticipated Above 125%						
Rate	Amount	Qty	Rate	Amount				
9	10	11	12	13	14	15	16	17
6924.01	4008263.95	63.66	6724.88	428099.63	4436363.58	1229752.42	0.00	
5.56	75921.05	0.00	0.00	0.00	75921.05	0.00	54941.81	
13.35	182292.46	0.00	0.00	0.00	182292.46	0.00	131919.64	
8137.72	4444779.05	0.00	0.00	0.00	4444779.05	0.00	3216554.49	

SL NO	Description of work	Unit	Qty as per Quoted Rate			Total Executed Quantity	Qty
			Qty	Rate	Amount		Qty
1	2	3	4	5	6	7	8
24	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and directions of the Engineer in charge.	Sqm	849.80	477.25	405567.05	485.92	485.92
	Sub Total				**39553147.23**		
	12% GST				**4746377.67**		
	Grand Total				**44299524.89**		

Note: Percentage of Workslip over Sanctioned Estimate=Excess amount over the approved amount/Approved Amount X 100

Approved Amount (including GST)=	**44299524.89**
Excess Amount (including GST) =	**6281009.18**
Savings Amount (including GST) =	**6283941.66**

$$\text{Percentage of Workslip} = \frac{\text{Excess Amount}}{\text{Approved Amount}} \times 100$$

Percentage of Workslip =	**14.18**	**%**

Contractor

Assistant Engineer

"WORK SLIP APPROVED"

CIVIL Pro Sig. Date BANGALORE

Qty as per Execution					Total Amount	Excess amount	Savings amount	Remarks
per Anticipated upto 125%		Qty as per Anticipated Above 125%						
Rate	Amount	Qty	Rate	Amount				
9	10	11	12	13	14	15	16	17
477.25	231905.32	0.00	0.00	0.00	231905.32	0.00	173661.73	
					39550528.94	**5608043.91**	**5610662.20**	
					4746063.47	**672965.27**	**673279.46**	
					44296592.41	**6281009.18**	**6283941.66**	

Assistant Executive Engineer

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M P Bangalore-560024

Executive Engineer

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ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ, ಬೆಂಗಳೂರು